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ABSTRACT

A high temperature superconducting composite rod, wire or tape is formed by filling the open cells of a reticulated foam structure made of silver, silver alloy, gold or gold alloy with a superconducting ceramic oxide or precursor, compacting the filled structure and forming it into a rod, wire or tape and heating it to melt and/or texture the superconducting ceramic oxide. The resulting composite has continuous ligaments of metal throughout a continuous region of superconducting ceramic oxide.

[illegible]